## **REMARKS**

Applicants respectfully request that the amendments be entered prior to examination of the application on the merits.

Respectfully submitted,

Date. AC OSTEMBE

FOLEY & LARDNER Customer Number: 22428

22428

PATENT TRADEMARK OFFICE

Telephone: (202) 672-5407 Facsimile: (202) 672-5399 Stephen A. Bent Attorney for Applicants

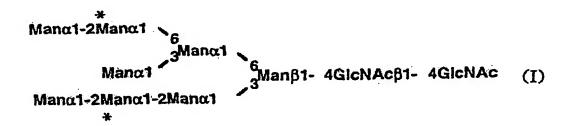
Registration No. 29,768

## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

- 3. (Twice Amended) The yeast mutant according to claim 1 or 2, wherein the auxotrophic mutation trait is selected form ura3 mutation, his3 mutation, leu2 mutation, ade2 mutation, trp1 mutation, and can1 mutation.
- 7. (Twice Amended) A process for producing an oligosaccharide, comprising the steps of:

culturing the yeast mutant according to claim 1 or 2 in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide represented by formula (I):



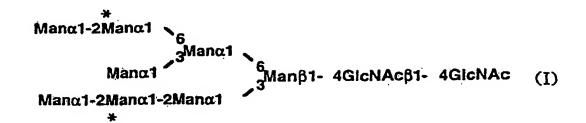
wherein Man represents mannose, GlcNAc represents N-acetylglucosamine, and \* represents a site capable of being phosphorylated, as an Asparagine-linked sugar chain, in the cultured product;

collecting the glycoprotein form the cultured product; and recovering the oligosaccharide from the collected glycoprotein.

8. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim 1 or 2, in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide represented by formula (I):



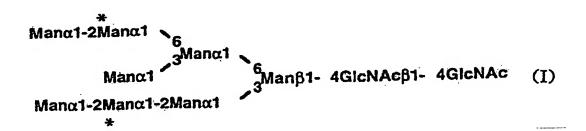
wherein Man represents mannose, GlcNAc represents N-acetylglucosamine, and \* represents a site capable of being phosphorylated, as an Asparagine-linked sugar chain, in the cultured product; and

collecting the glycoprotein from the cultured product.

9. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim 1 or 2, which has been transformed with a recombinant plasmid containing a gene coding for a mammalian-derived Asparagine-linked glycoprotein in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide represented by formula (I):



wherein Man represents mannose, GlcNAc represents N-acetylglucosamine, and \* represents a site capable of being phosphorylated, as an Asparagine-linked sugar chain, in the cultured product; and

collecting the glycoprotein from the cultured product.

- 11. (Twice Amended) A yeast mutant in which at least one gene associated with biosynthesis of a mammalian type sugar chain is introduced into the yeast mutant according to claim 1 or 2.
- 12. (Amended) A process for producing an oligosaccharide, comprising the steps of:

culturing the yeast mutant according to claim [11] 10 in a medium;
producing and accumulating a glycoprotein containing an oligosaccharide as an
Asparagine-linked sugar chain in the cultured product;

collecting the glycoprotein from the cultured product; and recovering the oligosaccharide from the collected glycoprotein.

13. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim [11] 10 in a medium; producing and accumulating a glycoprotein containing an oligosaccharide as a Asparagine-linked sugar chain in the cultured product; and collecting the glycoprotein from the cultured product.

14. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim [11] 10, which has been transformed with a recombinant plasmid containing a gene coding for a mammalian-derived Asparagine-linked glycoprotein, in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide as an Asparagine-linked sugar chain in the cultured product; and collecting the glycoprotein from the cultured product.

21. (Twice Amended) A process for producing an oligosaccharide, comprising the steps of:

culturing the yeast mutant according to claim 15 or 16 in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide represented by formula (II):

wherein Man represents mannose and GlcNAc represents N-acetylglucosamine, as an Asparagine-linked sugar chain, in the cultured product;

collecting the glycoprotein from the cultured product; and recovering the oligosaccharide from the collected glycoprotein.

22. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim 15 or 16 in a medium; producing and accumulating a glycoprotein containing an oligosaccharide represented by formula (II):

wherein Man represents mannose and GlcNAc represents N-acetylglucosamine, as an Asparagine-liked sugar chain, in the cultured product; and collecting the glycoprotein from the cultured product.

23. (Once Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to [any one of claims 15 to 20] <u>claim 15 or</u> <u>16</u>, that has been transformed with a recombinant plasmid containing a gene coding for a mammalian-derived Asparagine-linked glycoprotein, in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide represented by formula (II):

wherein Man represents mannose and GlcNAc represents N-acetylglucosamine, as an Asparagine-linked sugar chain, in the cultured product; and collecting the glycoprotein from the cultured product.

- 25. (Twice Amended) A yeast mutant in which at least one gene associated with biosynthesis of a mammalian type sugar chain is introduced into the yeast mutant according to claim 15 or 16.
- 26. (Twice Amended) A process for producing an oligosaccharide, comprising the steps of:

culturing the yeast mutant according to claim [25] 24 in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide as an Asparagine-linked sugar chain in the cultured product;

collecting the glycoprotein from the cultured product; and recovering the oligosaccharide from the collected glycoprotein.

27. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim [25] 24 in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide as an Asparagine-linked sugar chain in the cultured product; and collecting the glycoprotein from the cultured product.

28. (Twice Amended) A process for producing a glycoprotein, comprising the steps of:

culturing the yeast mutant according to claim [25] 24, which has been transformed with a recombinant plasmid containing a gene coding for a mammalian-derived Asparagine-linked glycoprotein, in a medium;

producing and accumulating a glycoprotein containing an oligosaccharide as an Asparagine-linked sugar chain in the cultured product; and collecting the glycoprotein from the cultured product.